TC-RX390

SERVICE MANUAL

US Model Canadian Model AEP Model



Model Name Using Similar Mechanism	TC-RX370
Tape Transport Machanism Type	TCM-190RB12CJ

SPECIFICATIONS

Recording system

4-track 2-channel stereo

Fast winding time

Approx. 90 sec. (with Sony C-60 cassette)

Bias

Heads Erasing head × 1 (F&F head)

Playback/Recording head × 1 (SD head)
Capstan motor × 1 (DC servo motor) Motors

Reel motor × 1 (DC motor)

Signal-to-noise ratio (at peak level)

Cassette (Dolby NR OFF)	Type IV (Sony Metal-S/Select)	Type II (Sony UX-S)	Type I (Sony HF-S)
	58 dB	57 dB	55 dB

Measured at peak level weithted without NR. The S/N is improved by about 15 dB at 500 Hz and by about 20 dB about 1 kHz with Dolby-C NR on, and by 5 dB at 1 kHz and by 10 dB about 5 kHz with Dolby-B NR on.

Harmonic distortion

0.4% (with Sony TYPE I, 160 nWb/m,

315 Hz, 3rd H.D.) 1.8% (with Sony TYPE IV, 250 nWb/m, 315 Hz, 3rd H.D.)

Frequency response (DOLBY NR OFF)

, , , , , , , , , , , , , , , , , , , ,		
Type IV cassette (Sony Metal-S/Select)	30 - 15,000 Hz (±3 dB, IEC) 30 - 13,000 Hz [±3 dB (-4 dB recording)]	
Type II cassette (Sony UX-S)	30 - 15,000 Hz (±3 dB, IEC)	
Type I cassette (Sony HF-S)	30 - 14,000 Hz (±3 dB, IEC)	

Wow and flutter

± 0.13% W.Peak (IEC) 0.07% W.RMS (NAB) ± 0.18% W.Peak (DIN)

Inputs

Line inputs	Sensitivity	0.16 V
(phono jacks)	Input impedance	47 k ohms

Outputs

outpoto					
Line outputs (phono jacks)	Rated output level	0.5 V at a load impedance of 47 k ohms			
	Load impedance	Over 10 k ohms			
Headphones (stereo phono jack)	Output level	1 mW at a load impedance of 32 ohms			

General

Power requirements

US, Canadian Model :120V AC, 60 Hz

AEP Model: 220-230V AC, (or 240V AC adjustable by

Sony personnel), 50/60 Hz 21 W

Power consumption

Approx. $430 \times 123 \times 300 \text{ mm (w/h/d)}$ $(17 \times 4^{7/6} \times 11^{7/6} \text{ inches})$ Dimensions

including projecting parts and controls

Approx. 3.8 kg (8 lbs 6 oz)

Supplied accessories Audio connecting cords (2)

Design and specifications are subject to change without notice.

Note

This appliance conforms with EEC Directive 87/308/EEC regarding interference suppression.

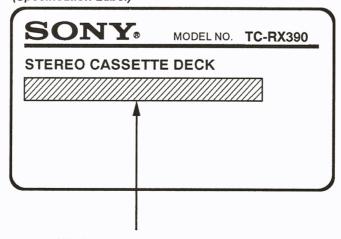




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MODEL IDENTIFICATION (Specification Label)



US, Canadian model : AC 120V 60Hz 21W AEP model : AC 220-230V~50 /60Hz 21W

SAFETY CHECK-OUT

After correcting the original service problem. perform the following safety check before releasing the set to the customer:

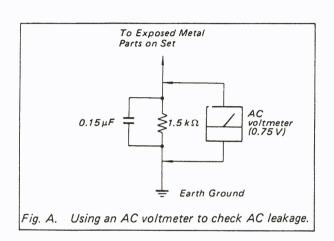
Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

- 1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
- 2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.

3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate lowvoltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)



SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK A OR DOTTED LINE WITH MARK ! ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUB-LISHED BY SONY.

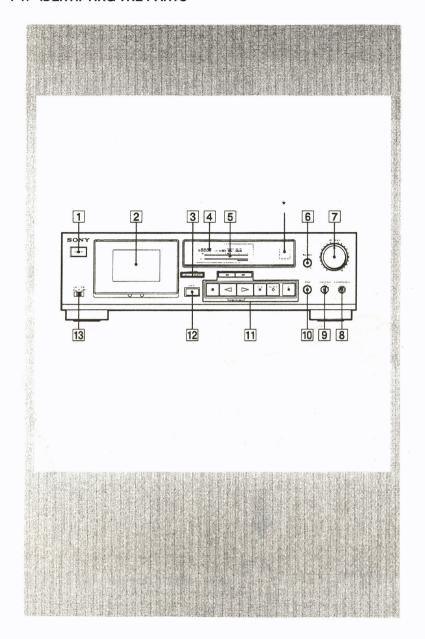
ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE A SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COM-POSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

SECTION 1 **GENERAL**

This section is extracted from instruction manual.

1-1. IDENTIFYING THE PARTS



Front Panel

For details, refer to the page number indicated in parenthesis

- 1 POWER switch
- 2 Cassette holder 3 Counter buttons
- RESET button MEMORY button
- 4 DIGITAL COUNTER
- 5 PEAK LEVEL METER 6 BALANCE control
- REC (recording) LEVEL control
- 8 HEADPHONES jack (stereo phone jack)
- 9 DOLBY NR (noise reduction) switch
- 10 BIAS control
- 11 Tape operation buttons
- ◄ (leftward fast winding) button
- ►► (rightward fast winding) button
- (stop) button
- (reverse play) button
- (forward play) button
- II PAUSE button
- O REC MUTE (record muting) button
- REC (recording) button 12 \(\text{(eiect) button} \)
- 13 DIRECTION mode switch
 - * Remote control sensor You can remotely control this cassette deck with:
 - A remote commander that came with a Sony amplifier or receiver if it has the I mark and cassette deck control capability.
 - An optional Sony remote commander with the 🖪 mark and cassette deck control capability.

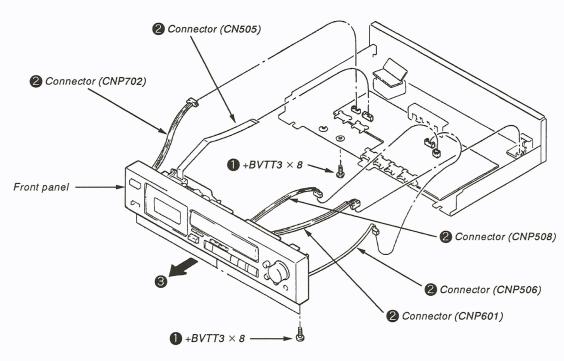
SECTION 2 DISASSEMBLY

Note: Follow the disassembly procedure in the numerical order given.

CASE
Unscrew the four case attachment screws M3 × 8 and remove the case.

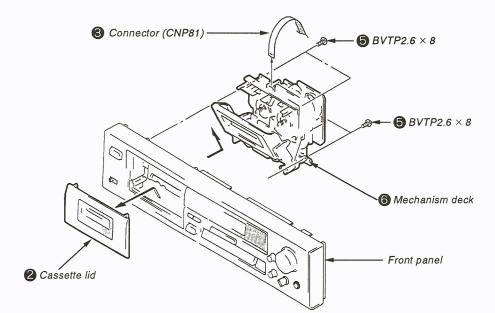
2-1. FRONT PANEL



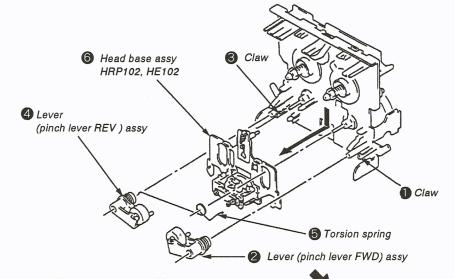


2-2 MECHANISM DECK

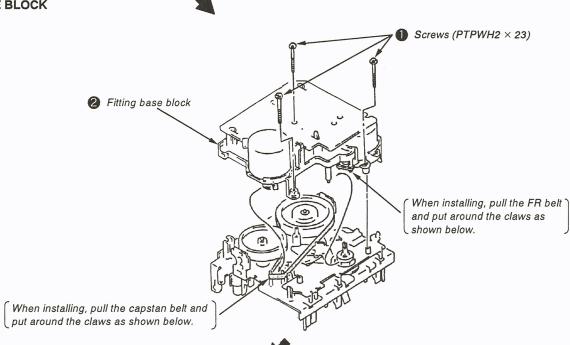
Press the eject button.



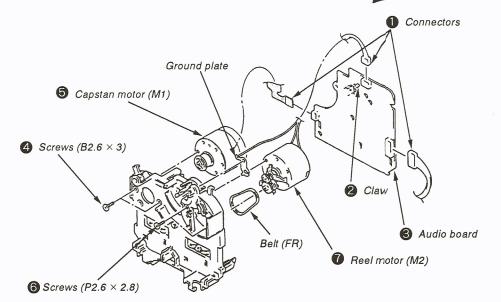
2-3. HEAD



2-4. FITTING BASE BLOCK

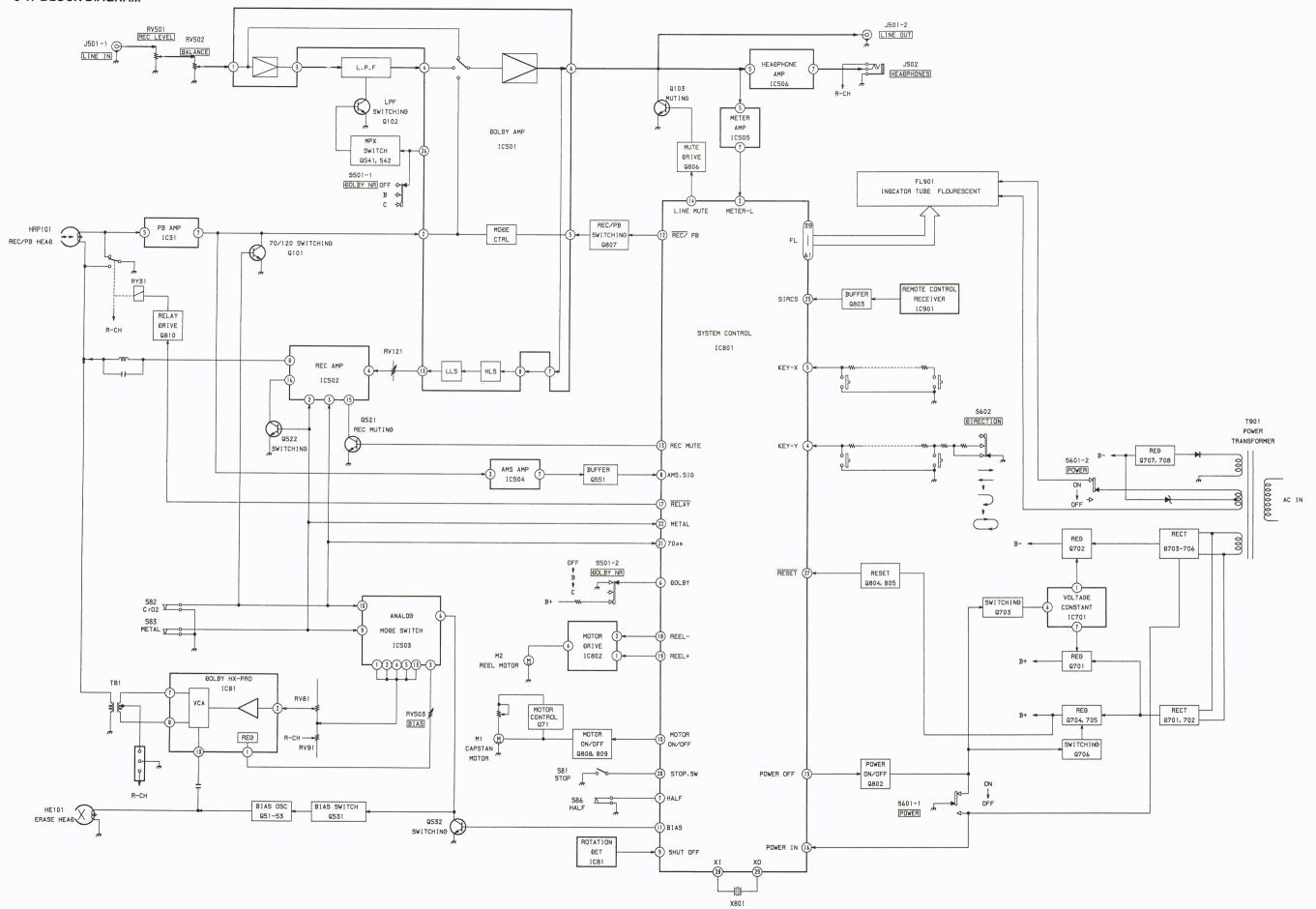


2-5. MOTOR



SECTION 3 BLOCK DIAGRAM

3-1. BLOCK DIAGRAM



SECTION 4 EXPLANATION OF IC TERMINALS

IC801 M50940-395SP

Pin. No.	Terminal name	1/0	Terminal explanation	
1	VREF	I	Reference voltage 5V	
2	METER LCH	I	Meter level Lch	
3	METER RCH	I	Meter level Rch	
4	KEY Y	I	$0V = \text{stop}, \ 0.8V = \text{rew}, \ 1.7V = \text{ff}, \ 2.6V = \text{rec}, \ 3.4V = \text{ssw} \implies, \ 4.2V = \implies, \ 5V = \implies$	
5	KEY X	I	0V = pause, 0.8V = fwd, 1.7V = rev, 2.6V = recm, 3.4V = reset, 4.2V = memory	
6	DOLBY	I	OFF: 0 - 2.2V, B: 2.2 - 4.8V, C: 4.8V -	
7	HALF	I	Switch status	
8	AMS. SIG	I	Ams signal input 2.5V < MUSIC, 2.5V > not MUSIC	
9	SHUT OFF	I	Supply pulse	
10	MOTOR ON/OFF	0	Capstan motor. $5V = ON$, $0V = OFF$	
11	BIAS	0	Bias osc 5V = ON	
12	REC/PB	Ο	Recording/Playback selector for Dolby IC select OV = Record, 5V = Playback	
13	REC MUTE	0	Rec out mute. 5V = MUTE	
14	LINE MUTE	0	Line out mute. OV = MUTE	
15	POWER OFF	0	OV = Power OFF, cut OFF = Power ON	
16	POWER IN	I	OV = Power OFF	
17	RELAY	0	Relay selctor. 5V = Record, 0V = Playback	
18	REEL -	0	Reel motor - trg ff play stop The open is high	
19	REEL +	0	Reel motor + 1 0 0 0 impedance.	
20	STOP. SW	I	Mecha stop mode SW. 5V = stop	
21	70 μ S	I	Tape type 2. $5V = ON$	
22	METAL	I	Tape type 4. $5V = ON$	
23	NC	Ι	GND	
24	NC	I	GND	
25	SIRCS	I	Sircs signal in	
26	CNVSS	I	GND	
27	RESET	I	Reset. $OV = Reset$	
28	XIN	I	System clock in	
29	XOUT	0	System clock out	
30	CXIN	I	Not used	
31	CXOUT	0	Not used	
32	VSS	I	GND	
33	NC	0	Not used	
34	VERSION	I	5V = rev, $0V = oneway$	
35	TEST	I	Test mode selector. $5V = normal$, $0V = test mode$	

Pin. No.	Terminal name	1/0	Terminal explanation
36	NC	I	GND
37	NC	I	GND
38	- 21V	I	- 21V
39 - 54	FL-a – p	0	FLT segment
55 - 61	FL-g5 — g1	0	FLT grid
62	NC	0	Not used
63	AVCC	I	Analog power supply in +5V
64	VCC	I	Power supply in +5V

IC502 CXA1579P

Pin. No.	Terminal name	1/0	Terminal explanation	
1	SPEED	I	GND	
2	METAL	I	Metal tape selector terminal "H": METAL	
3	70 μ S	I.	CrO ₂ tape selector terminal "H": CrO ₂	
4	REC IN1	I	Recording equalizer amp input terminal	
5	GND		GND	
6	BOOST1	I	External capacitor for low-pass boost connecting terminal	
7	VEE		- 7.5V	
8	REC OUT1	0	Recording equalizer amp output terminal	
9	REC OUT2	0	Recording equalizer amp output terminal	
10	VCC		+ 7.5V	
11	BOOST2		External capacitor for low-pass boost connecting terminal	
12	IREF	0	Standard current setting terminal of monolithic filter	
13	REC IN2	I	Recording equalizer amp input terminal	
14	REC CAL	I	Recording calibration terminal "H": Recording level gain down	
15	REC MUTE	I	Recording Mute ON/OFF selector terminal "H": Mute OFF "L": Mute ON	
16	GP CAL	I	High-pass calibration terminal "H": High-pass level gain down "L": High-pass level gain up	

SECTION 5 ADJUSTMENTS

5-1. MECHANICAL ADJUSTMENTS

PRECAUTION

 Clean the following parts with a denatured alcohol-moistened swab:

record/playback/erase head pinch roller rubber belts capstan idlers

- 2. Demagnetize the record/playback head with a head demagnetizer. (Head demagnetizer do not approach for the erase head.)
- 3. Do not use a magnetized screwdriver for the adjustment.
- 4. After the adjustments, apply suitable locking compound to the parts adjusted.
- 5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

Torque Measurement

Torque	Torque	Meter reading
Forward	CQ-102C	30 to 65g•cm (0.42 to 0.9 oz•inch)
Forward back tension	CQ-102C	1 to 6g•cm (0.014 to 0.08 oz•inch)
Reverse	CQ-102RC	30 to 65g•cm (0.42 to 0.9 oz•inch)
Reverse back tension	CQ-102RC	1 to 6g*cm (0.014 to 0.08 oz*inch)
FF/REW	CQ-201B	70 to 120g•cm (0.98 to 1.67 oz•inch)

5-2. ELECTRICAL ADJUSTMENTS

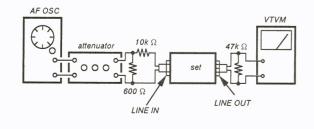
PRECAUTION

- 1. The adjustment should be performed in the publication.
 (Be sure to male playback adjustment at first.)
- 2. The adjustments and measurement should be performed for both L-CH and R-CH.
- Switch position

• Standard record position:

Deliver the standard input signal level to input jack and set the REC LEVEL control to obtain the standard output signal level as follows.

- Record Mode -



Standard Input Level

Input terminal	LINE IN
source impedance	10k Ω
input signal level	0.5V (- 3.8dB)

Standard Output Level

Output terminal	LINE OUT
load impedance	47k Ω
output signal level	0.5V (- 3.8dB)

Test Tape

Tape	Conte	nts	Use
P-4-A100	10kHz, -	- 10dB	Azimuth Adjustment
P-4-L300	315Hz,	0dB	PB Level Adjustment
WS-48B	3kHz,	0dB	Tape Speed Adjustment

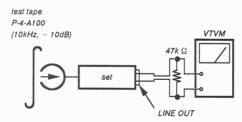
0dB=0.775V

Test Mode

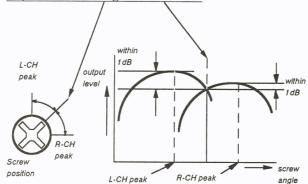
- 1. Insert a short-circuit plug into TP801 (2P) and turn ON the power switch. (Earth pin 🚳 of IC801 and turn ON the power switch.)
- The memory is turned ON when the recording starts, and the counter starts counting from "0000".
- When applying +5V to pin ⑤ of IC801, the FL tube will be fully lit.
- 2. To release the test mode, remove the short plug and turn off the power switch.
- 3. Remove the short plug after completion of adjustment.

Record/Playback Head Azimuth Adjustment Procedure:

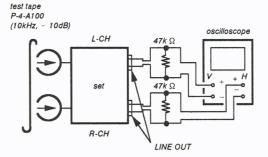
1. Forward playback Mode

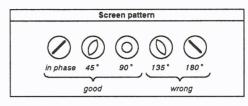


2. Turn the adjustment screw for the maximum output levels. If these levels do not match, turn the adjustment screw <u>until both of output levels match together within 1dB.</u>



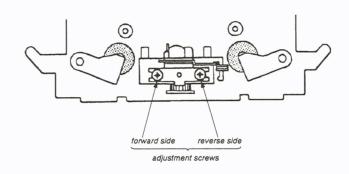
3. Playback Mode





- 4. Change the reveres playback mode and repeat the steps 1 to 3.
- 5. After the adjustment, lock the adjustment screws with suitable locking compound.

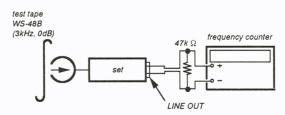
Adjustment Location: - record/playback head -



Tape Speed Adjustment

Procedure:

- Forward Playback Mode -



- 1. Set to FWD playback mode.
- 2. Adjust RV71 so that the frequency counter reading becomes $3,000 \pm 10 \text{Hz}$.

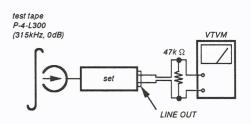
Frequency difference between the beginning and the end of the tape should be within 3%.

Adjustment Location: AUDIO board

Playback Level Adjustment

Procedure:

- Forward Playback Mode -



Adjust RV11(L-CH) and RV21(R-CH) so the VTVM reading becomes the adjustment limits below.

Adjustment Value:

LINE OUT level: -7.7 ± 0.5 dB (0.301 to 0.338V)

Level difference between channels: within 0.5dB

Confirm the LINE OUT level does not change in playback mode while changing the mode from playback to stop several times

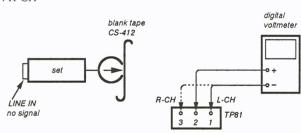
Adjustment Location : AUDIO board

Bias Consumption Current Adjustment

This adjustment should be performed when replacing the head assy or the bias oscillating transformer (T81,T91).

Procedure:

(): R-CH



- 1. Connect the digital voltmeter to test point TP81.
- 2. Set RV81 (RV91) to mechanical center.
- 3. Set to FWD record mode.
- 4. Adjust T81 (T91) so that the digital voltmeter reading becomes minimum.

Adjustment Location: AUDIO board

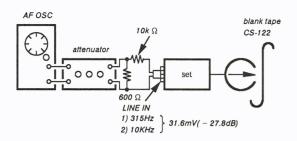
Record Bias Adjustment

Setting:

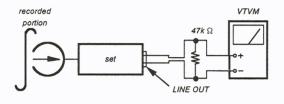
REC LEVEL control: standard record position (Refer to page 11.)

Procedure:

1. Record Mode



2. Playback Mode



Confirm that the 10kHz playback output is 0 \pm 0.5dB relative to the 315Hz output. If necessary, adjust RV81(L-CH), RV91(R-CH) and repeat the steps given above.

Adjustment Location: AUDIO board

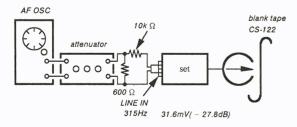
Record Level Adjustment

Setting:

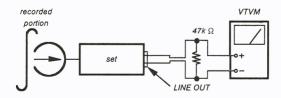
REC LEVEL control: standard record position (Refer to page 11.)

Procedure:

1. Record Mode



2. Playback Mode



Confirm playback the tape recorded become adjustment level as follows.

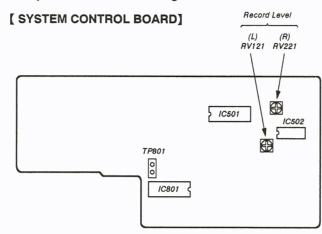
If necessary, adjust RV121(L-CH), RV221(R-CH) and repeat the steps 1 and 2.

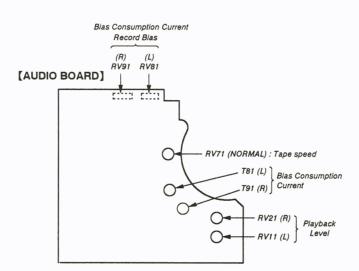
Adjustment Value:

LINE OUT level : -26 ± 0.5 dB (36.7 to 41.1mV)

Adjustment Location: SYSTEM CONTROL

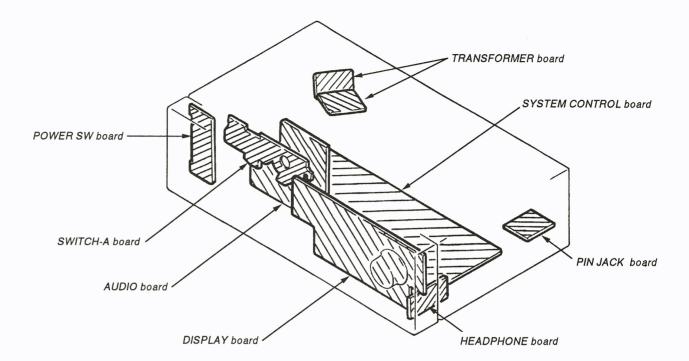
- Adjustment Parts Location Diagrams -

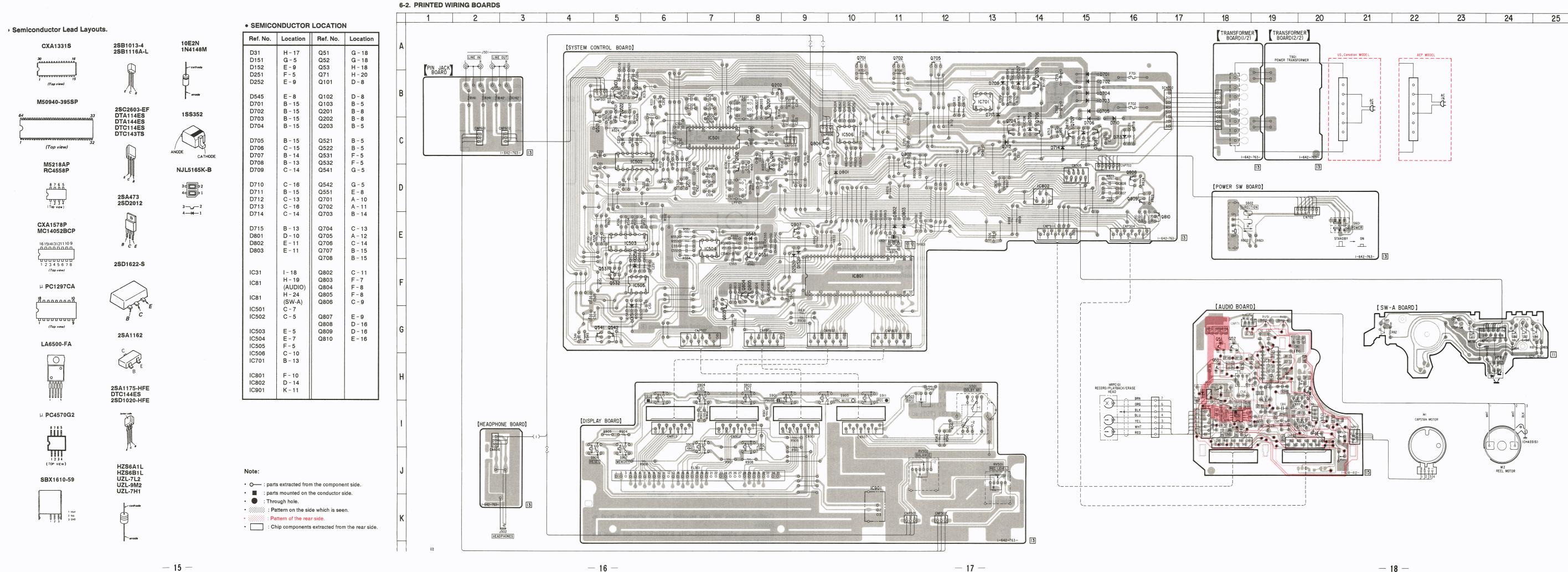


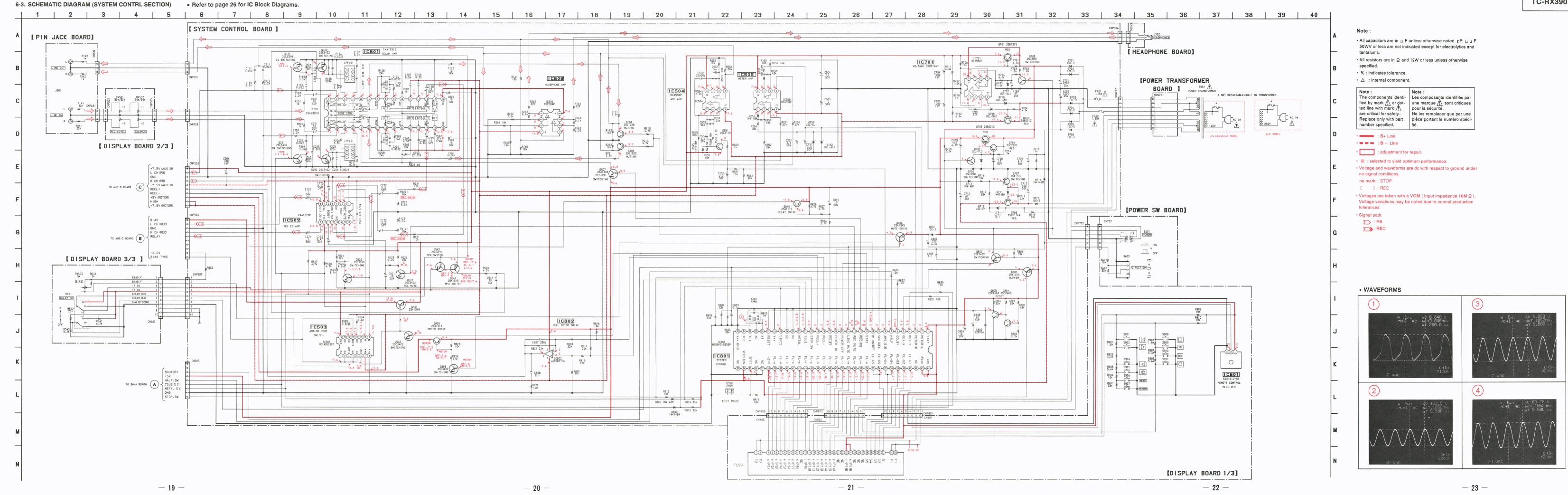


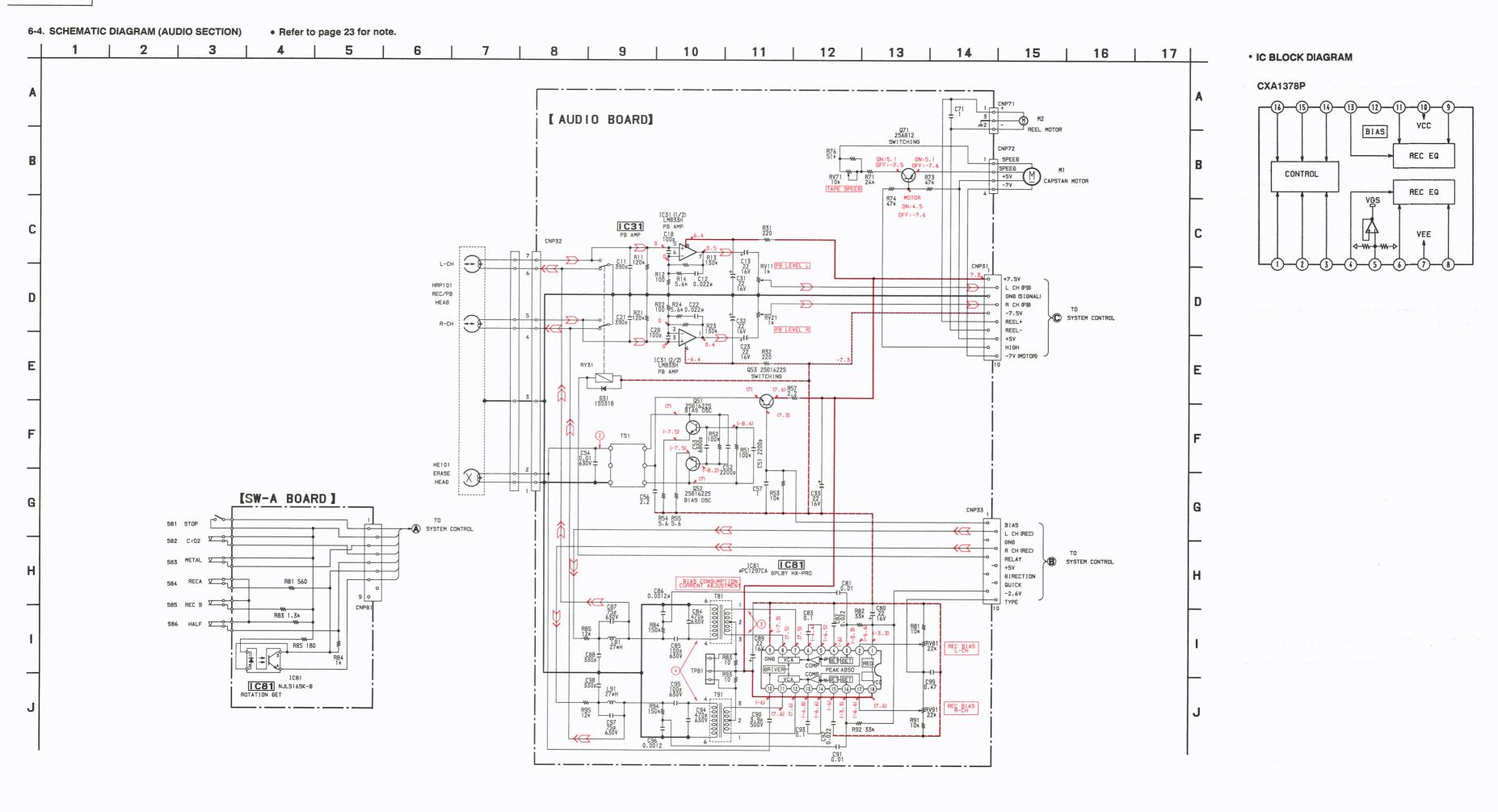
SECTION 6 DIAGRAMS

6-1. CIRCUIT BOARDS LOCATION









SECTION 7 **EXPLODED VIEWS**

NOTE:

- -XX, -X mean standardized parts, so they may have some differences from the original one.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Color indication of Appearance Parts Example:

KNOB, BALANCE (WHITE) (RED)

Parts color Cabinet's color

- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list is given in the last of this parts list.

The components identified by mark for dotted line with mark fare critical for safety.

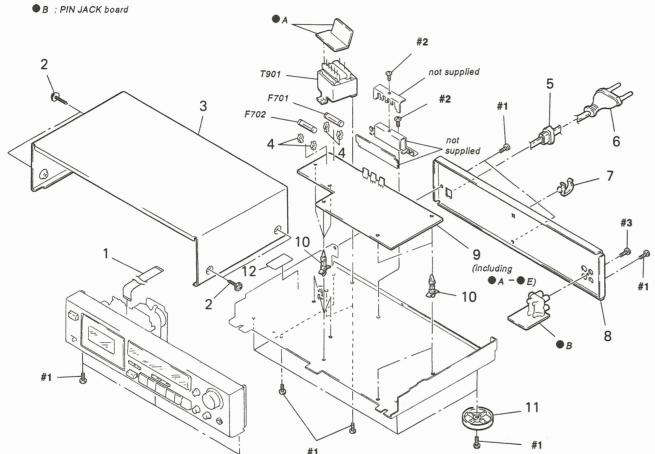
Replace only with part number specified

Les composants identifiés par une marque A sont critiques pour la sécurité.

Ne les remplacer que par une pièce portant le numéro spécifé.

7-1. CHASSIS SECTION

● A: TRANSFORMER board



Ref. No.	Part No.	Description	Remark
1	1-575-781-11	WIRE, FLAT TYPE (9 CORE)	
2	3-704-366-01	SCREW (CASE) (M3X8)	
3	3-332-578-42	CASE	
* 4	1-533-213-31	HOLDER, FUSE	
* 5	3-703-244-00	BUSHING (2104), CORD (AEP)	
* 5	3-703-571-11	BUSHING (S) (4516), CORD (US, C	anadian)
∆ 6	1-555-795-00	CORD, POWER, EULO PLUG (AEP)	
∆ 6	1-558-945-11	CORD, POWER (POLAR. SPT-1) (US, C	anadian)
* 7	4-949-235-01	HOOK	
* 8	3-377-944-01	PANEL, BACK (US, Canadian)	
* 8	3-377-944-11	PANEL, BACK (AE1)	
* 8	3-377-944-21	PANEL, BACK (AE2)	

* 9	A-2006-786-A SYSTEM CONTROL BOARD, COMPLETE
* 10	3-346-265-11 HOLDER, PC BOARD
11	4-943-148-32 FOOT (F58175SW)(US, Canadian)
11	4-943-148-42 FOOT (F58175SW)(AEP)
* 12	3-703-044-26 LABEL, CAUTION (US, Canadian)
 A F701	1-532-285-00 FUSE, TIME-LAG (AEP)
▲ F701	1-532-741-11 FUSE, GLASS TUBE (US, Canadian)
▲ F702	1-532-285-00 FUSE, TIME-LAG (AEP)
▲ F702	1-532-741-11 FUSE, GLASS TUBE (US, Canadian)
▲ T901	1-450-750-11 TRANSFORMER, POWER (AEP)
 ₹901	1-450-751-11 TRANSFORMER, POWER (US, Canadian)

Description

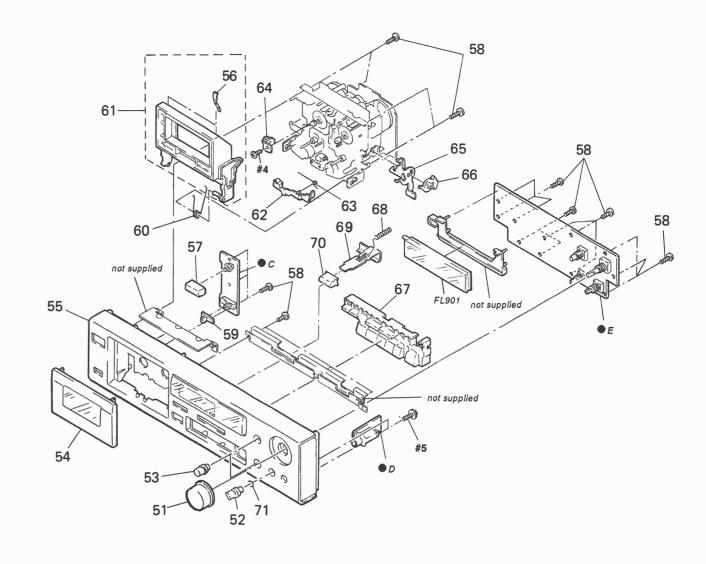
Remark

Ref. No. Part No.

7-2. FRONT PANEL SECTION

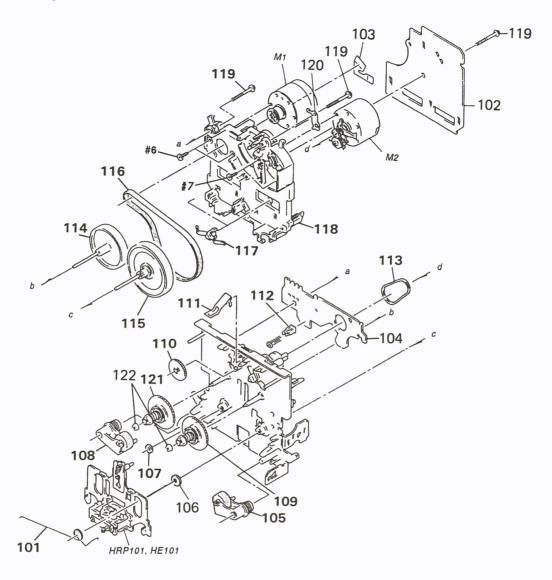
C: POWER SW board

D: HEADPHONE board ● E : DISPLAY board



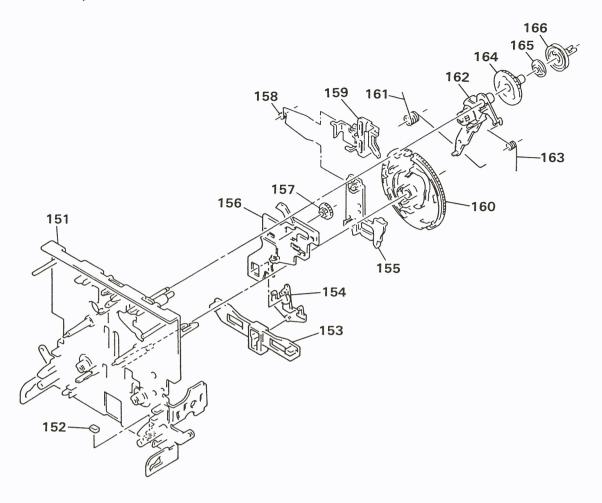
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	3-367-438-11	KNOB (REC)		61	X-3365-324-1	HOLDER (R) ASSY, CASSETTE (US	, Canadian)
52	3-380-950-01	KNOB (VOL)		62	3-354-956-01	LEVER (EJ SAFTY LEVER R)	
53	3-367-431-01	KNOB (BAL)		63	3-354-962-01	SPRING (EJ SAFTY SPRING R)	
54	X-3365-338-1	LID (R) ASSY, CASSETTE		64	3-354-963-01	DAMPER	
55	X-3365-337-1	PANEL ASSY, FRONT (AEP)		* 65	3-354-954-01	LEVER (LOCK LEVER R)	
55	X-3365-339-1	PANEL ASSY, FRONT (US, Canadian)	66	3-354-957-01	JOINT (LOCK LEVER)	
56	3-308-823-11	SPRING		67	3-367-434-31	BUTTON (A)	
57	4-922-921-01	BUTTON (POWER)		68	3-359-906-01	SPRING, COMPRESSION	
58	4-951-620-01	SCREW (2.6X8), +BVTP		* 69	3-370-068-01	SLIDER (EJECT)	
59	4-931-421-11	KNOB (T & S)		70	3-370-067-01	BUTTON (EJECT)	
60	3-354-960-01	SPRING (LOADING R), TORSION		71	3-356-935-01	SPRING	
61	X-3340-195-1	HOLDER (R) ASSY, CASSETTE (AEP)	FL901	1-519-713-11	INDICATOR TUBE, FLUORESCENT	

7-3. MECHANISM SECTION 1 (TCM-190RB12CJ)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
101		SPRING, TORSION		112	3-343-419-01	HOLDER (S SENSER A)	
* 102	A-2006-828-A	AUDIO BOARD, COMPLETE		113	3-359-466-01	BELT (FR), SQUARE	
103	1-638-983-11	PC BOARD, MOTOR FLEXIBLE		114		FLYWHEEL (REV) ASSY	
* 104	1-634-841-14	SW-A BOARD		115	X-3364-554-1	FLYWHEEL (FWD) ASSY	
				116	3-359-417-01	BELT (FLAT), CAPSTAN	
105	X-3359-408-1	LEVER (PINCH LEVER FWD) ASSY	1				
106	3-356-713-01	WASHER		117	3-575-321-00	RETAINER, THRUST, CAPSTAN	
107	3-356-714-01	WASHER		* 118		BASE (THRUST RETAINER), FITTING	
108	X-3359-409-1	LEVER (PINCH LEVER REV) ASSY		119		SCREW (+PTPWH 2X23)	
109	X-3359-404-1	TABLE ASSY, REEL		120	3-359-450-01	PLATE, GROUND	
				121	X-3362-078-1	TABLE ASSY (B), REEL	
110	3-359-424-01	GEAR (REV GEAR)					
111	3-359-430-01	SPRING(CASSETTE RETAINER), LEA	F	122	3-362-308-01	CAP (REEL)	
				HE101	A-2003-838-A	BASE ASSY, HEAD (ERASE)	
						BASE ASSY, HEAD (PB/REC)	
				M1		MOTOR ASSY, CAPSTAN	
				M2	X-3363-501-1	MOTOR ASSY, REEL	

7-4. MECHANISM SECTION 2 (TCM-190RB12CJ)



Ref. No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
151	X-3359-415-1	CHASSIS ASSY, MECHANICAL		160	3-359-420-01	GEAR (CAM GEAR)	
152	3-359-469-01	SPACER		161	3-359-456-01	SPRING (TRIGGER SPRING), TORSION	
* 153	3-359-425-01	SLIDER (REVERSE SLIDER)		162	X-3359-405-1	LEVER (FR ARM) ASSY	
154	3-359-426-01	LEVER (REVERSE LEVER)		163	3-359-453-01	SPRING (FR ARM), TORSION	
* 155	3-359-427-01	SLIDER (LEVERSE SLIDER)		164	3-359-419-01	GEAR (FR GEAR)	
* 156	3-359-415-01	SLIDER (TRIGGER SLIDER)		165	3-359-421-01	CLUTCH (REEL DISK)	
157	3-359-448-01	GEAR (TRIGGER)		166	3-359-418-01	PULLEY (FR PULLEY)	
158	3-359-454-01	SPRING, TORSION					
159	3-359-429-01	SLIDER (BRAKE PLATE)					

SECTION 8 ELECTRICAL PARTS LIST

AUDIO

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- •-XX, -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS All resistors are in ohms METAL: Metal-film resistor

METAL OXIDE: Metal oxide-film resistor F: nonflammable

- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anti-cipated when ordering these items.
- SEMICONDUCTORS In each case, $u:\mu$, for example: uA....: μA...., uPA....: μPA.... uPB....: μPB...., uPC....: μPC....
- uPD....: μPD.... CAPACITORS $uF: \mu F$
- COILS uH: µH

The components identified by mark for dotted line with mark for are critical for safety.

Replace only with part number specified.

Les composants identifiés par une marque A sont critiques pour la sécurité.

Ne les remplacer que par une pièce portant le numéro spécifié.

When indicating parts by reference number, please include the board.

0.022uF 5	5% 50V
	10% 25V
	5% 630V
	5% 630V
0.001241 0	576 JUV
75PF 5	5% 630V
	10% 50V
0. 47uF	25V
0. 1741	201
RD TO BOARD	RD
(PC BOARD)	
RD TO BOARD	,
R (SMALL TYP	
TOR 4P	
(SMALL TYP	YPE) 2P
(0.0.1.0.0	
:	
27mH	
27mH	
SD1622-S	
SD1622-S	
SD1622-S	
SA1162	
S	27mH D1622-S D1622-S D1622-S

AUDIO SW-A SYSTEM CONTROL

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Descrip	otion		Remark
		< RESISTOR >				T91		TRANSFO	ORMER, BIAS OSCI	LLAT0	R
R11	1-216-099-00	METAL CHIP	120K	5%	1/10W			< CONNE	CTOR >		
R12	1-216-025-00		100	5%	1/10W			\ 0011111	2010K >		
R13	1-216-100-00		130K		1/10W	± TD91	1-568-440-11	none i mo	G, CONNECTOR (PC	DOADD	מפו
R14	1-216-067-00		5. 6K		1/10W	i			***********		
R21	1-216-099-00		120K		1/10W	********	*****	*****	*****	****	*******
K21	1-210-099-00	MEIAL CHIP	120h	3 /0	1/10#	*	1-634-841-14	SW-A BO) ARD		
R22	1-216-025-00	METAL CHIP	100	5%	1/10W			*****			
R23	1-216-100-00	METAL GLAZE	130K	5%	1/10W						
R24	1-216-067-00	METAL CHIP	5.6K	5%	1/10W		3-343-419-01	HOLDER	(S SENSER A)		
R31	1-216-033-00	METAL CHIP	220	5%	1/10W						
R32	1-216-033-00	METAL CHIP	220	5%	1/10W			< CONNE	ECTOR >		
R51	1-216-097-00	METAL CHIP	100K	5%	1/10W	* CND 8 1	1_569_959_11	CUCKET	CONNECTOR 9P		
R52	1-216-097-00		100K		1/10W	* CNLOI	1-300-032-11	SUCKEI,	CONNECTOR 9P		
R53			100K					/ TC >			
	1-216-073-00			5%	1/10W			< IC >			
R54	1-216-309-00		5.6	5%	1/10W						
R55	1-216-309-00	METAL CHIP	5.6	5%	1/10W	IC81	8-719-710-03	DIODE	NJL5165K-B		
R57	1-216-298-00	METAL CHIP	2. 2	5%	1/10W			< RESIS	STOR >		
R71	1-216-082-00	METAL GLAZE	24K	5%	1/10W						
R72	1-216-081-00	METAL CHIP	22K	5%	1/10W	R81	1-249-414-11	CARBON	560	5%	1/4W
R73	1-216-089-00	METAL CHIP	47K	5%	1/10W	R82	1-247-818-11	CARBON	300	5%	1/4W
R74	1-216-089-00	METAL CHIP	47K	5%	1/10W	R83	1-247-834-11	CARBON	1.3K	5%	1/4W
						R84	1-249-417-11			5%	1/4W
R76	1-216-090-00	METAL CHIP	51K	5%	1/10W	R85	1-249-408-11			5%	1/4W
R81	1-216-073-00		10K	5%	1/10W		1 210 100 11	OHRDON	100	<i>u 7</i> 0	1/411
R82	1-216-085-00		33K	5%	1/10W			< SWITC	ч \		
R83	1-216-001-00		10	5%	1/10W			\ J#110	.11 /		
R84	1-216-101-00		150K		1/10W	S81	1_571_050_11	CWITCU	PUSH (1 KEY) (ST	(מסיד	
NO4	1 210 101 00	MEINE CHII	10011	J /0	1/10#	S82				IUF)	
DOE	1 216 075 00	METAL CHID	1.077	E O/	1 /1 AW	1	1-571-281-21				
R85	1-216-075-00		12K	5%	1/10W	S83			LEAF (METAL)		
R91	1-216-073-00		10K	5%	1/10W	S84			LEAF (REC A)		
R92	1-216-085-00		33K	5%	1/10W	S85	1-571-281-21	SWITCH,	LEAF (REC B)		
R93	1-216-001-00		10	5%	1/10W						
R94	1-216-101-00	METAL CHIP	150K	5%	1/10W	S86	1-571-281-21		LEAF (HALF) ************************************		
R95	1-216-075-00	METAL CHIP	12K	5%	1/10W	*******	***********	*****	*****	*****	*****
						*	A-2006-786-A		CONTROL BOARD, C		
		< VARIABLE RESI	STOR >					*****	**********	*****	***
RV11	1-241-627-11	RES, ADJ, CARBO)N 1K (PB LE	VEL)	*	1-533-213-31	HOLDER,	FUSE		
RV21	1-241-627-11	RES, ADJ, CARBO	ON 1K (PB LE	VEL)	*	1-562-327-00	SOCKET.	CONNECTOR 3P		
RV71		RES, ADJ, CARBO						,			
RV72		RES, ADJ, CARBO						< CAPAC	ITOR >		
RV81		RES, ADJ, CARBO						· om no	TION >		
						C101	1-124-907-11	ELECT	10uF	20%	50V
RV91	1-241-122-11	RES, ADJ, CARBO	N 22K	(REC	BIAS)	C102	1-136-157-00	FILM	0.022uF	5%	50V
						C103	1-130-471-00	MYLAR	0.001uF	5%	50V
		< RELAY >				C104	1-130-475-00		0.0022uF		5 O V
						C105	1-130-475-00		0.0022uF	5%	50V
RY31	1-515-803-11	KELAY				C106	1-130-475-00	MVIAD	0. 0022uF	E 0/	50V
		< TRANSFORMER >	,			li .				5%	
		· INDIVIDUAL /				C107	1-136-174-00		0.56uF	5%	50V
						C108	1-136-171-00		0.33uF	5%	50V
TE 1	1-406-417 11	COTI DIAC OCCI	II ATTA	M		0100					
T51 T81		COIL, BIAS OSCI TRANSFORMER, BI			O.D.	C109 C110	1-124-907-11 1-124-907-11		10uF 10uF	20% 20%	50V 50V

								_					
Ref. No.	Part No.	Description			Remark	1		Part No.	Descripti]	Remark
C111	1-136-157-00	RII M	0. 022uF	5%	50V	-	C000	1 164 150 11	CEDANIC				
C111	1-124-903-11		0.022ur 1uF	20%	50V		C808 C809	1-164-159-11		0. 1uF			0 V
C121	1-123-382-00		3. 3uF	20%				1-164-159-11		0. 1uF	0.00		0 V
C122	1-124-465-00				100V	1	C810	1-124-907-11	ELECI	10uF	20%	5	0 V
			0. 47uF	20%	50V								
C151	1-123-382-00	ELECI	3. 3uF	20%	100V				< CONNECT	OR >			
C201	1-124-907-11	ELECT	10uF	20%	5 O V	*	CN505	1-568-828-11	SOCKET, C	CONNECTOR 9P			
C202	1-136-157-00	FILM	0.022uF	5%	5 O V	*	CN607	1-580-782-11	CONNECTOR	R, BOARD TO I	BOARD		
C203	1-130-471-00	MYLAR	0.001uF	5%	50V	*	CN901	1-580-782-11	CONNECTOR	R, BOARD TO E	BOARD		
C204	1-130-475-00	MYLAR	0.0022uF	5%	50V	*	CN902	1-580-782-11	CONNECTOR	R, BOARD TO H	BOARD		
C205	1-130-475-00	MYLAR	0.0022uF	5%	50V	*	CN903	1-580-782-11	CONNECTOR	, BOARD TO E	BOARD		
C206	1-130-475-00	MYLAR	0. 0022uF	5%	50V	*	CNP501	1-564-337-00	PIN CONN	FCTOR 3P			
C207	1-136-174-00		0.56uF	5%	50V	1		1-564-705-11			TVDE	3 D	
C208	1-136-171-00		0.33uF	5%	50V	*	CNP503	1-691-916-11	CONNECTOR	DOION (SMALI	עמאט (מיווני	3F	
C209	1-124-907-11		10uF	20%	50V	4		1-691-916-11					
C210	1-124-907-11		10uF	20%	50V			1-564-705-11				a D	
0810	1 151 001 11	55501	1001	20%	001	,	CMF 303	1-304-703-11	rin, conn	ECIUK (SMALL	, ITPE)	31	
C211	1-136-157-00	FILM	0.022uF	5%	50V	*	CNP506	1-564-337-61	PIN, CONN	ECTOR 3P			
C221	1-124-903-11	ELECT	1uF	20%	50V	*	CNP507	1-580-784-11	CONNECTOR	, BOARD TO E	OARD		
C222	1-123-382-00	ELECT	3.3uF	20%	100V	*	CNP508	1-564-705-11	PIN, CONN	ECTOR (SMALL	TYPE)	3P	
C223	1-124-465-00	ELECT	0.47uF	20%	50V			1-564-705-11					
C251	1-123-382-00	ELECT	3. 3uF	20%	100V			1-564-340-00			,		
		- 110											
C501	1-124-907-11		10uF	20%	50V			1-580-784-11					
C502	1-124-907-11		10uF	20%	50V	*	CNP802	1-580-784-11	CONNECTOR	, BOARD TO B	OARD		
C503	1-126-233-11		22uF	20%	50V	*	CNP803	1-580-784-11	CONNECTOR	, BOARD TO B	OARD		
C504	1-124-907-11		10uF	20%	50V								
C505	1-124-907-11	ELECT	10uF	20%	50V				< DIODE >				
C521	1-124-907-11	ELECT	10uF	20%	50V		D151	8-719-987-63	DIODE 1	N4148M			
C541	1-124-034-51	ELECT	33uF	20%	16V		D152	8-719-933-33		ZS6A1L			
C551	1-162-217-31	CERAMIC	56PF	5%	50V		D251	8-719-987-63		N4148M			
C552	1-161-494-00	CERAMIC	0.022uF		25V		D252	8-719-933-33		ZS6A1L			
C553	1-162-217-31		56PF	5%	50V		D545	8-719-987-63		N4148M			
				•			D010	0 110 001 00	DIODE I	MATAOM			
C554	1-124-925-11	ELECT	2. 2uF	20%	100V		D701	8-719-200-77	DIODE 1	0E2N			
C555	1-124-925-11	ELECT	2. 2uF	20%	100V		D702	8-719-200-77	DIODE 1	0E2N			
C701	1-124-563-11	ELECT	2200uF	20%	25V		D703	8-719-200-77	DIODE 1	0E2N			
C702	1-124-563-11	ELECT	2200uF	20%	25V		D704	8-719-200-77	DIODE 1	0E2N			
C703	1-124-477-11	ELECT	47uF	20%	25V		D705	8-719-200-77		0E2N			
C704	1-124-473-11	ELECT	1000uF	20%	10V		D706	8-719-200-77	DIODE 1	0E2N			
C705	1-124-473-11		1000uF	20%	10V		D707	8-719-933-33		ZS6A1L			
C706	1-124-927-11		4. 7uF		100V		D708	8-719-933-33					
C708	1-124-907-11		10uF	20%	50V		D709			ZL-9M2			
C709	1-124-472-11		470uF	20%	10V		D709	8-719-000-78 8-719-200-77		ZL-7L2 0E2N			
			.,,,,	20%	101		DITO	0 113 200-11	DIODE I	UE ZN			
C710	1-124-122-11		100uF	20%	50V		D711	8-719-987-63	DIODE 1	N4148M			
C711	1-164-159-11		0. 1uF		50V		D712	8-719-987-63	DIODE 1	N4148M			
C712	1-124-910-11		47uF	20%	50V		D713	8-719-000-93	DIODE U	ZL-7H1			
C802	1-161-494-00		0.022uF		25V		D714	8-719-987-63	DIODE 1	N4148M			
C803	1-124-907-11	ELECT	10uF	20%	50V		D715	8-719-933-36	DIODE H	ZS6B1L			
C804	1-124-907-11	ELECT	10uF	20%	50V		D801	8-719-200-77	DIODE 1	0E2N			
C805	1-164-159-11		0. 1uF		50V			8-719-987-63		N4148M			
C806	1-126-176-11		220uF	20%	10V			8-719-987-63		N4148M			
C807	1-162-288-31		330PF		50V		2000		710DD 11	1111011			
	•												

	Part No.	Description		Remark	Ref.No.	Part No.	Description			Remark
		< INDICATOR '	TUBE >		Q805	8-729-620-05	TRANSISTOR	2SC2603-	EF	
					Q806	8-729-900-65	TRANSISTOR	DTA144ES	3	
FL901	1-519-713-11	INDICATOR TU	BE, FLUORESCENT		Q807	8-729-900-61	TRANSISTOR	DTA114ES	3	
					Q808	8-729-900-80	TRANSISTOR	DTC114ES	5	
		< IC >			Q809	8-729-801-84	TRANSISTOR	2SB1013-	4	
IC501	8-752-059-55	IC CXA1331	S		Q810	8-729-119-76	TRANSISTOR	2SA1175-	HFE	
	8-752-055-61									
IC503	8-759-000-48						< RESISTOR >			
	8-759-945-58									
	8-759-945-58				R101	1-249-417-11	CARBON	1 K	5%	1/4W
					R102	1-249-421-11		2. 2K		1/4W
10506	8-759-634-51	IC M5218AP			R103	1-247-887-00		220K		1/4W
	8-759-945-58					1-249-423-11		3. 3K		1/4W
	8-759-065-44				R105	1-247-887-00		220K		1/4W
	8-759-803-42				NI O	1 217 007 00	OMEDON	22011	070	1/ 411
	8-741-100-48				R106	1-249-423-11	CARBON	3.3K	5%	1/4W
10001	0 141 100 40	TO ODMICIO			R107	1-249-428-11		8. 2K		1/4W
		< JACK >			R108	1-247-864-11		24K	5%	1/4W
		· • · · · ·			R109	1-249-414-11		560		1/4W
J501	1-565-258-11	JACK PIN 4P	(LINE IN/OUT)		R110	1-249-421-11		2. 2K		1/4W
			TYPE (HEADPHONES)		KIIV	1 240 421 11	ONROON	2. 2h	0 /0	1/4#
0002	1 000 010 41	Thou, Britab	TITE (HENDI HONDO)		R111	1-249-421-11	CARRON	2. 2K	5%	1/4W
		< FILTER >			R112	1-249-432-11		18K	5%	1/4W
		(TIBIBI)			R113	1-249-425-11		4.7K		1/4W
I DE 1 0 1	1-231-388-00	FIITER IOW F	2240		R121				5%	1/4W
	1-231-388-00				R122	1-249-423-11		3.3K		1/4W
El l'Evi	. 1 231 300 00	TIBIBR, DOW I	100		K122	1 243 423 11	CARDON	3. Jh	J /6	1/4#
		< TRANSISTOR	>		R141	1-249-433-11	CARBON	22K	5%	1/4W
					R142	1-249-417-11	CARBON	1 K	5%	1/4W
Q101	8-729-900-89	TRANSISTOR	DTC144ES		R151	1-249-434-11	CARBON	27K	5%	1/4W
Q102	8-729-900-80	TRANSISTOR	DTC114ES		R152	1-247-868-11	CARBON	36K	5%	1/4W
Q103	8-729-142-25	TRANSISTOR	2SD1020-HFE		R153	1-247-870-11	CARBON	43K	5%	1/4W
Q201	8-729-900-89	TRANSISTOR	DTC144ES							
Q202	8-729-900-80	TRANSISTOR	DTC114ES		R154	1-249-408-14	CARBON	180	5%	1/4W
					R161	1-249-432-11	CARBON	18K	5%	1/4W
Q203	8-729-142-25	TRANSISTOR	2SD1020-HFE		R162	1-249-421-11	CARBON	2.2K	5%	1/4W
Q521	8-729-900-80	TRANSISTOR	DTC114ES		R163	1-247-854-11	CARBON	9.1K	5%	1/4W
Q522	8-729-900-89	TRANSISTOR	DTC144ES		R164	1-249-409-11	CARBON	220	5%	1/4W
Q531	8-729-900-61	TRANSISTOR	DTA114ES							
Q532	8-729-900-80	TRANSISTOR	DTC114ES		R165	1-249-432-11	CARBON	18K	5%	1/4W
					R201	1-249-417-11	CARBON	1 K	5%	1/4W
Q541	8-729-900-65	TRANSISTOR	DTA144ES		R202	1-249-421-11	CARBON	2.2K	5%	1/4W
Q542	8-729-900-89	TRANSISTOR	DTC144ES		R203	1-247-887-00	CARBON	220K	5%	1/4W
Q551	8-729-119-76	TRANSISTOR	2SA1175-HFE		R204	1-249-423-11	CARBON	3.3K	5%	1/4W
Q701	8-729-141-83	TRANSISTOR	2SA473							
Q702	8-729-209-15	TRANSISTOR	2SD2012		R205	1-247-887-00	CARBON	220K	5%	1/4W
					R206	1-249-423-11	CARBON	3.3K	5%	1/4W
Q703	8-729-900-74	TRANSISTOR	DTC143TS		R207	1-249-428-11	CARBON	8.2K	5%	1/4W
Q704	8-729-620-05	TRANSISTOR	2SC2603-EF		R208	1-247-864-11	CARBON	24K	5%	1/4W
Q705	8-729-209-15	TRANSISTOR	2SD2012		R209	1-249-414-11	CARBON	560	5%	1/4₩
Q706	8-729-900-74	TRANSISTOR	DTC143TS							
Q707	8-729-119-76	TRANSISTOR	2SA1175-HFE		R210	1-249-421-11	CARBON	2.2K	5%	1/4W
					R211	1-249-421-11	CARBON	2.2K	5%	1/4W
Q708	8-729-140-04	TRANSISTOR	2SB1116A-L		R212	1-249-432-11	CARBON	18K	5%	1/4W
Q802	8-729-900-80	TRANSISTOR	DTC114ES		R213	1-249-425-11	CARBON	4.7K	5%	1/4W
Q803	8-729-900-65	TRANSISTOR	DTA144ES		R221	1-249-429-11	CARBON	10K	5%	1/4W
Q804	8-729-620-05	TRANSISTOR	2SC2603-EF							

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Ref. No.	Part No.	Description			Remark	Ref.No.	Part No.	Description			Remark
R222	1-249-423-11	CARBON	3.3K	5%	1/4W	R705	1-249-419-11		1.5K	5%	1/4W
R241	1-249-433-11		22K	5%	1/4W	R706	1-249-429-11		10K	5%	1/4W
R242	1-249-417-11		1 K	5%	1/4W	R707	1-249-419-11		1.5K		1/4W
R251	1-249-434-11		27K	5%	1/4W	R708	1-249-425-11		4.7K	5%	
R252	1-247-868-11		36K	5%	1/4W	R709	1-249-429-11				1/4W
N L O L	1 247 000 11	CARDON	JUN	JA	1/411	1,09	1-249-409-11	CARBUN	220	5%	1/4W
R253	1-247-870-11	CARBON	43K	5%	1/4W	R710	1-249-417-11	CARRON	1 K	5%	1/4W
R254	1-249-408-11		180	5%	1/4W	R711	1-249-427-11		6.8K		
R261	1-249-432-11		18K	5%	1/4W	R712	1-249-427-11				1/4W
R262	1-249-421-11		2. 2K	5%	1/4W	11111111111111			6.8K		1/4W
R263	1-247-854-11		2. ZK 9. 1K	5%		R713	1-249-417-11		1 K	5%	1/4W
1,200	1-247-034-11	CARDON	9. IN	0 /6	1/4W	R714	1-247-838-00	CARBON	2 K	5%	1/4W
R264	1-249-409-11	CADDON	220	5%	1 /AW	D715	1 040 401 11	CIDDON	0 077	F.0/	
R265	1-249-432-11				1/4W	R715	1-249-421-11		2. 2K		1/4W
R501			18K	5%	1/4W	R716	1-249-429-11		10K	5%	1/4W
	1-249-417-11		1 K	5%	1/4W	R717	1-249-436-11		39K	5%	1/4W
R502	1-215-455-00		27K	1%	1/6W	R718	1-249-433-11		22K	5%	1/4W
R503	1-249-429-11	CARBON	10K	5%	1/4W	R719	1-249-441-11	CARBON	100K	5%	1/4₩
2504											
R521	1-215-455-00		27K	1%	1/6W	R801	1-249-432-11		18K	5%	1/4W
R522	1-249-429-11		10K	5%	1/4W	R802	1-249-423-11	CARBON	3.3K	5%	1/4W
R523	1-249-421-11		2.2K	5%	1/4W	R803	1-249-435-11	CARBON	33K	5%	1/4W
R524	1-249-433-11		22K	5%	1/4W	R804	1-249-435-11	CARBON	33K	5%	1/4W
R525	1-247-854-11	CARBON	9.1K	5%	1/4W	R805	1-247-903-00	CARBON	1 M	5%	1/4W
R526	1-247-846-11		4.3K	5%	1/4W	R806	1-249-435-11	CARBON	33K	5%	1/4W
R527	1-249-425-11	CARBON	4.7K	5%	1/4W	R807	1-249-435-11	CARBON	33K	5%	1/4W
R528	1-249-425-11	CARBON	4.7K	5%	1/4W	R808	1-249-435-11	CARBON	33K	5%	1/4W
R532	1-249-417-11	CARBON	1 K	5%	1/4W	R809	1-249-435-11	CARBON	33K	5%	1/4W
R534	1-247-836-11	CARBON	1.6K	5%	1/4W	R812	1-249-429-11	CARBON	10K	5%	1/4W
R535	1-249-426-11	CARBON	5.6K	5%	1/4W	R813	1-249-435-11	CARBON	33K	5%	1/4W
R541	1-247-850-11	CARBON	6.2K	5%	1/4W	R814	1-249-435-11	CARBON	33K	5%	1/4W
R542	1-247-862-11	CARBON	20K	5%	1/4₩	R815	1-249-435-11	CARBON	33K	5%	1/4W
R543	1-249-428-11	CARBON	8.2K	5%	1/4W	R816	1-249-429-11	CARBON	10K	5%	1/4W
R545	1-249-425-11	CARBON	4.7K	5%	1/4W	R817	1-247-862-11		20K	5%	1/4W
											-,
R546	1-247-838-00	CARBON	2 K	5%	1/4W	R818	1-249-433-11	CARBON	22K	5%	1/4W
R551	1-249-441-11	CARBON	100K	5%	1/4W	R819	1-249-430-11	CARBON	12K	5%	1/4W
R552	1-249-429-11	CARBON	10K	5%	1/4W	R820	1-249-433-11		22K	5%	1/4W
R553	1-249-441-11	CARBON	100K	5%	1/4W	R821	1-249-433-11		22K	5%	1/4W
R554	1-249-428-11	CARBON	8.2K	5%	1/4W	R822	1-249-405-11		100	5%	1/4W
					.,				100	070	1/ 11
R555	1-249-441-11	CARBON	100K	5%	1/4W	R823	1-249-429-11	CARBON	10K	5%	1/4W
R556	1-249-423-11		3.3K	5%	1/4W	R824	1-249-413-11		470	5%	1/4W
R557	1-249-441-11		100K	5%	1/4W	R825	1-249-403-11		68	5%	1/4W
R558	1-249-429-11		10K	5%	1/4W	R826	1-249-422-11		2.7K		1/4W
R559	1-249-429-11		10K	5%	1/4W	R827	1-249-422-11		2. 7K		
11000	1 510 150 11	Onkbok	1011	0 /0	1/4"	KO Z I	1 243 422 11	CARDON	2. IN	3 %	1/4W
R560	1-249-417-11	CARBON	1 K	5%	1/4W	R828	1-249-422-11	CARRON	2.7K	5%	1/4W
R561	1-249-431-11		15K	5%	1/4W	R830					
R562	1-249-436-11		39K	5%	1/4W		1-249-405-11		100	5%	1/4W
R601	1-249-429-11		10K	5 %	1	R831	1-249-405-11		100	5%	1/4W
R602	1-249-425-11		33K	5% 5%	1/4W	R832	1-249-405-11		100	5%	1/4W
ROUZ	1 440 400-11	OUUDON	JON	J /6	1/4W	R833	1-249-405-11	CAKBUN	100	5%	1/4W
R701	1-249-425-11	CARRON	4.7K	59	1 /AW	D001	1_240_400_11	CADDON	1 077	F.0/	1 / 4 111
R701	1-249-425-11		4.7K		1/4W	R901	1-249-420-11		1.8K		1/4W
R702	1-249-420-11				1/4W	R902	1-249-423-11		3.3K		1/4W
R703			5.6K		1/4W	R903	1-249-426-11		5.6K		1/4W
N/U4	1-249-427-11	CARDUN	6.8K	076	1/4W	R904	1-249-429-11	CAKBON	10K	5%	1/4W

	Part No.		
R906 R907 R908	1-249-435-11 1-249-420-11 1-249-423-11 1-249-426-11 1-249-429-11	CARBON 1.8K 5% 1/4W CARBON 3.3K 5% 1/4W CARBON 5.6K 5% 1/4W	
R910	1-249-429-11	CARBON 10K 5% 1/4W	
		< VARIABLE RESISTOR >	
RV221 RV501 RV502	1-238-600-11 1-241-820-11 1-241-821-11	RES, ADJ, CARBON 10K (REC GAIN) RES, ADJ, CARBON 10K (REC GAIN) RES, VAR, CARBON 50K/50K (REC LEVEL) RES, VAR, CARBON 50K/50K (BALANCE) RES, VAR, CARBON 5K (BIAS)	
		< SWITCH >	
S601 S602 S901	1-554-118-00 1-571-520-11 1-554-303-21	SWITCH, ROTARY (DOLBY NR) SWITCH, PUSH (1 KEY) (POWER) SWITCH, SLIDE (DIRECTION) SWITCH, TACTILE (PAUSE) SWITCH, TACTILE (▷)	
S905 S906 S907	1-554-303-21 1-554-303-21 1-554-303-21	SWITCH, TACTILE (
5910	1-554-303-21	SWITCH, TACTILE (<<) SWITCH, TACTILE (▷▷) SWITCH, TACTILE (REC)	
		< CONNECTOR >	
* TP801	1-564-505-11	PLUG, CONNECTOR 2P	
		< CRYSTAL >	
		VIBRATOR, CERAMIC	
		MISCELLANEOUS ***********	
1 △ 6 △ 6 103 △ F701	1-555-795-00 1-558-945-11 1-638-983-11	WIRE, FLAT TYPE (9 CORE) CORD, POWER, EULO PLUG (AEP) CORD, POWER (POLAR.SPT-1)(US, Canadian) PC BOARD, MOTOR FLEXIBLE FUSE, TIME-LAG (AEP)	
▲ F701 ▲ F702 ▲ F702 M1 M2	1-532-285-00 1-532-741-11 X-3359-417-1	FUSE, GLASS TUBE (US, Canadian) FUSE, TIME-LAG (AEP) FUSE, GLASS TUBE (US, Canadian) MOTOR ASSY, CAPSTAN MOTOR ASSY, REEL	

Ref.No.	Part No.	Description	Remark			
∆ T901	1-450-750-1	TRANSFORMER, POWER (AEP)			
∆ T901	1-450-751-1	TRANSFORMER, POWER (US,	Canadian)			
******	*******	*************	********			
	ACCESSORI	ES & PACKING MATERIALS				
	******	******				
	1-558-271-1	1 CORD, CONNECTION				
*	3-350-830-0	CUSHION				
*	3-376-443-8	I INDIVIDUAL CARTON				
	3-755-327-1	MANUAL, INSTRUCTION (Ca	nadian, AEP)			
	(ENGLISH/FRENCH/SPANISH/PORTUGUESE)					
	3-755-327-2	MANUAL, INSTRUCTION (US	, Canadian)			
		(ENGLISH)				
	3-755-327-4	L MANUAL, INSTRUCTION (AE	P)			
		(GERMAN/DUTCH/SWEDISH/I	TAIIAN)			

******* **HARDWARE LIST** *******

#1	7-682-548-09	SCREW	+BVTT	3 X 8	(S)
#2	7-682-547-04	SCREW	+BVTT	3 X 6	(S)
#3	7-621-849-00	SCREW	(BV/RIN	G)	
#4	7-621-773-95	SCREW	+BVTT 2	. 6X6	(S)
#5	7-685-134-19	SCREW	(+ PTPW	H)(2.	6X8)
#6	7-621-775-00	SCREW	+B 2.6X	3	
#7	7-627-556-08	SCREW	+P 2.6X	2.8	

Note:
The components identified by mark A or dotted line with mark A are critical for safety.
Replace only with part number specified.

Note:
Les composants identifiés par une marque A sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.